OWNER'S GUIDE

ASSEMBLY · OPERATION · MAINTENANCE · REPAIR PARTS

HAWTHORNE
BICYCLE
60B-5B-2

WARDS
HAWTHORNE BICYCLE

M O N T G O M E R Y W A R D

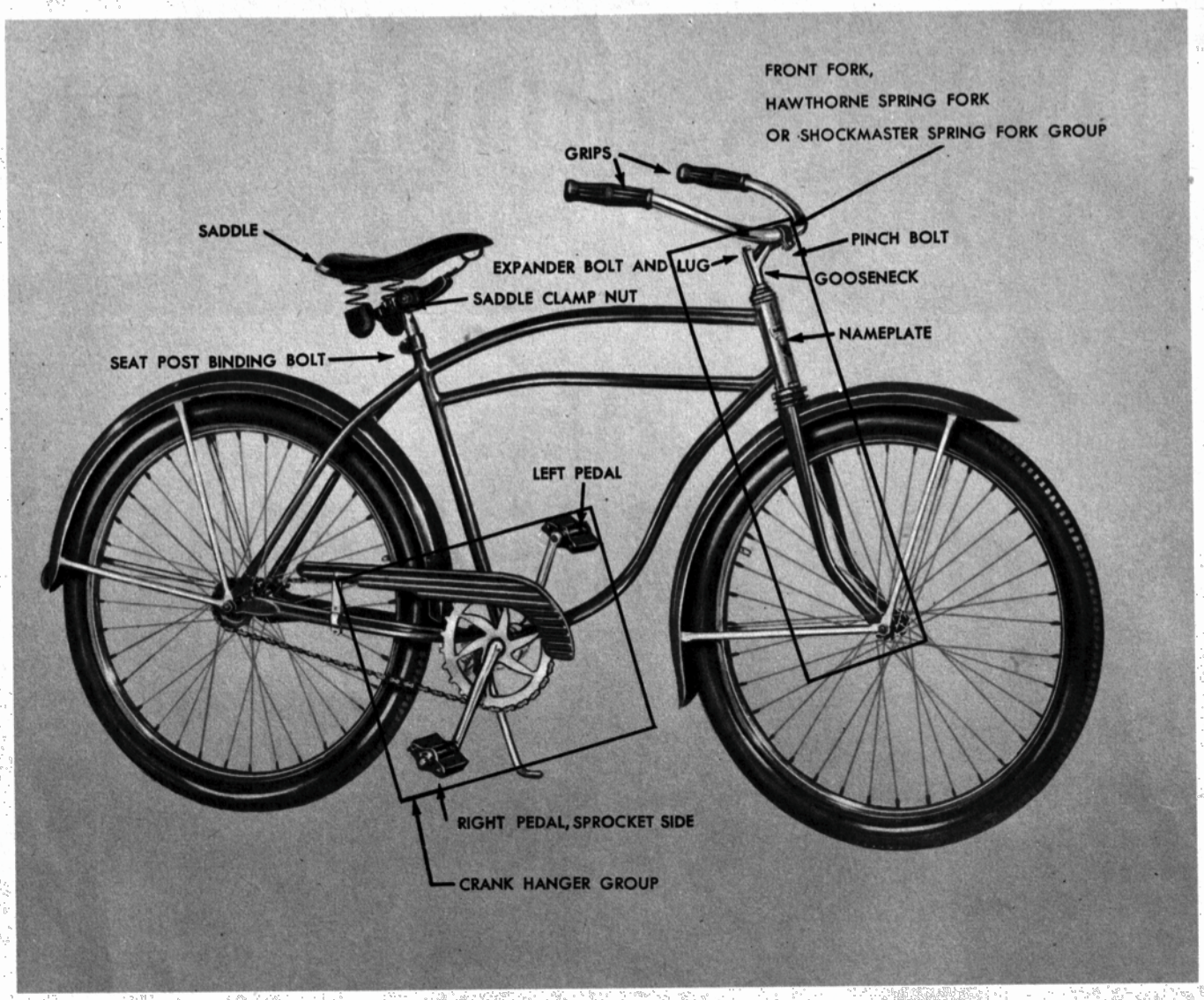


FIG. 1

WARDS HAWTHORNE BICYCLES

UNPACKING

Lift bicycle straight out of carton. Remove all packages containing equipment from bottom of carton. The following equipment is included:

- 2 pedals (1 marked "R" for right; 1 marked "L" for left)
- 1 side kick-up stand
- 1 saddle
- 1 handlebar and stem assembly

ASSEMBLY

ATTACH SIDE KICK-UP STAND to frame with bolt and nut, (see Fig. 2). The oblong slot through which the bolt extends makes the stand adjustable. Move stand in or out to make bicycle lean properly; then tighten bolt.

Some models will have stand attached to frame when received.

ATTACH PEDALS—There are two pedals for the Hawthorne bicycle, 1 marked L for left foot, the other marked R for right foot. Marks are on the shoulder at thread end of pedal. Put a few drops of oil on axle threads of pedal marked R. Fit axle in end of crank on right or sprocket side, (see Fig. 3); turn clockwise with your fingers to start threads into opening. If started straight, axle will turn freely for several turns. When you are sure threads are straight, draw pedal up tightly with a "thin" wrench. Be sure not to strip

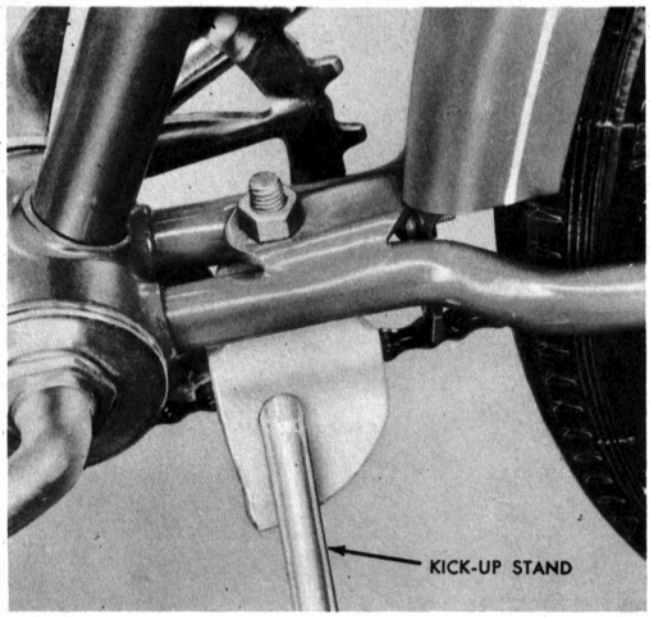


Fig. 2—POSITION SIDE KICK-UP STAND

threads. Attach the L pedal on the left side in same manner. **This Pedal is Turned to the Left Instead of to the Right.**

WARNING—Be sure pedals are drawn tightly to shoulder of crank with a wrench. If pedals are loose, the threads will strip.

ATTACH SADDLE—First loosen clamp nut and turn clamp to proper position, (see Fig. 4). Slip saddle on seat post, tilt to proper position (nose or front of saddle tilted up slightly) and tighten clamp nut securely. Loosen seat post in frame, by loosening seat post binder bolt on frame clamp, (see Fig. 5). Raise or lower the saddle post until top of saddle is level with the rider's hip bone as he stands along side of

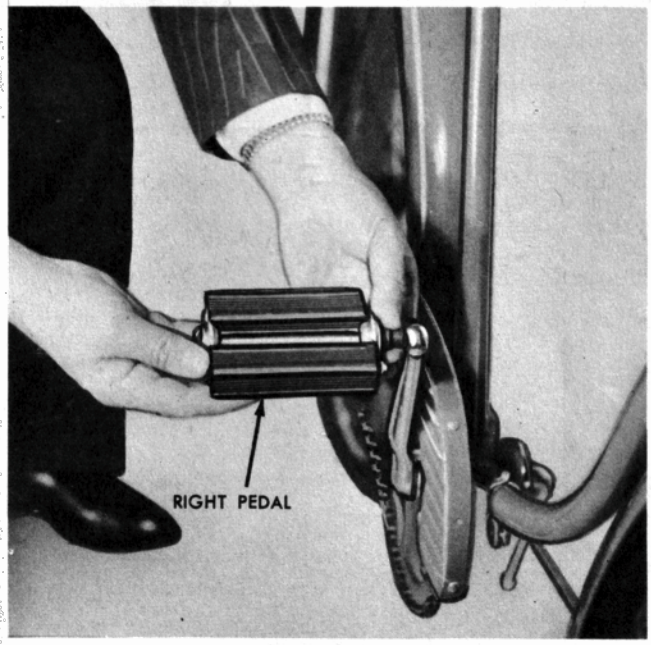


Fig. 3—HOW TO ATTACH PEDAL

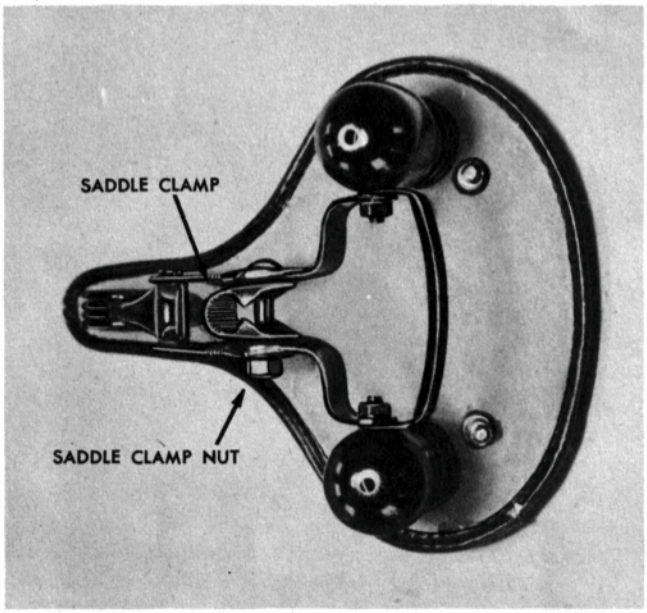


Fig. 4—SADDLE

bicycle. Tighten binder bolt nut securely. This is the proper riding position for saddle.

ATTACH STEM AND HANDLEBAR—To attach stem—loosen expander bolt several turns and tap to loosen expander lug in the stem. It is very important that ridge on expander lug remains in slot of stem, (see Fig. 6); otherwise, it will be difficult to tighten stem properly. Insert stem in bicycle head, with gooseneck forward and directly in line with front wheel, to a depth of about 1¾-in. Tighten stem expander bolt until stem is held firmly in bicycle head. To attach handlebar — loosen pinch bolt and place handlebar through stem. Adjust angle to suit rider and tighten pinch bolt with wrench, (see Fig. 7). Do not use pliers. Replace grips.

OPERATION

TIRE PRESSURES—Size 26x2.125 (Balloon)—Before inflating, be sure that bead of tire is set firmly in groove of rim; inflate to 22 to 35 lbs. pressure, according to weight of rider.

Never ride on soft tires, as this will break down the side walls, causing fabric to separate and to shorten life of tire. Avoid blowouts by using an accurate balloon tire gauge to measure pressure when inflating tires. Check pressures of tires regularly.

COASTER BRAKES AND WHEELS—Unless absolutely necessary, do not loosen or tamper with adjustments of the front hub or rear coaster brake. These are factory adjusted and should not require readjustment for a long time. It is

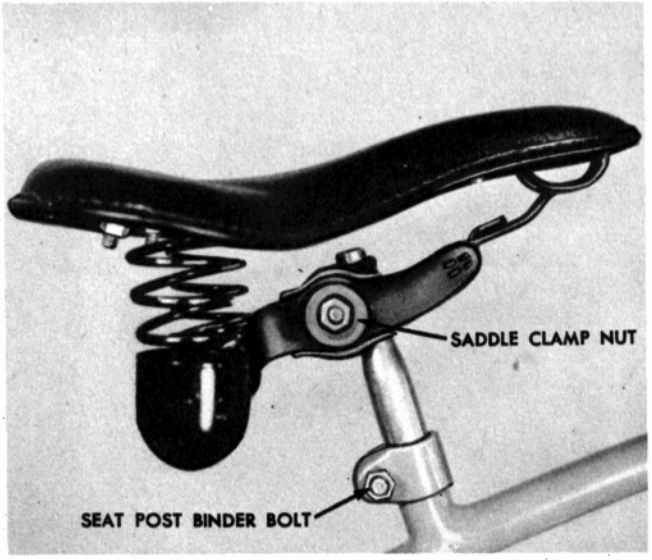


Fig. 5—CORRECT POSITION OF SADDLE

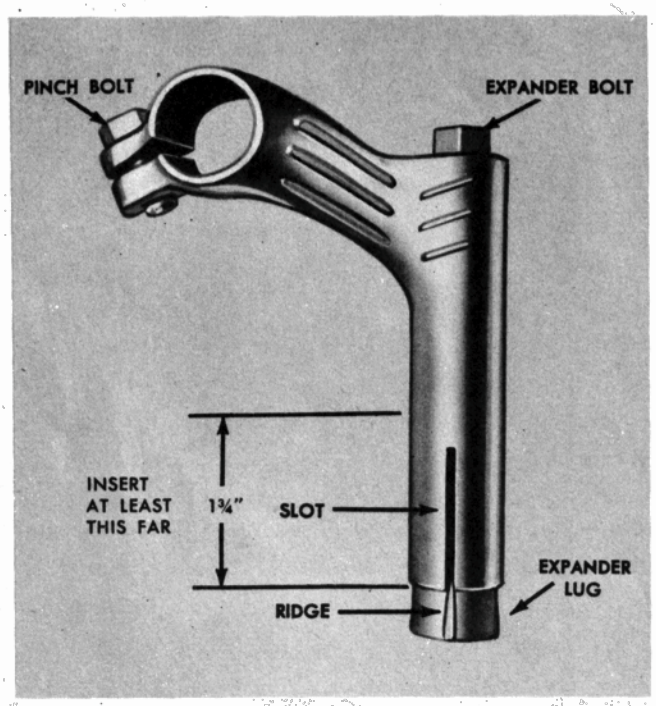


Fig. 6—STEM (GOOSENECK)

very important, however, that the wheels be kept in proper alignment at all times. Make sure that the rear wheel runs in exact center of fork.

SERRATED (NOTCHED) AXLE WASHER ADJUSTERS — Your bicycle is equipped with the serrated axle washer adjusters, for adjustment as follows: loosen nuts on each end of rear axle. Pull wheel back or forward until desired chain adjustment is made, and wheel is centered. Tighten axle nuts, (the one on arm side of coaster brake first) against serrated washer adjuster which grips the rear fork tips of the frame and holds the wheel in proper place.

NOTE—When properly adjusted, chain should yield slightly to touch; it should be tight but not taut.

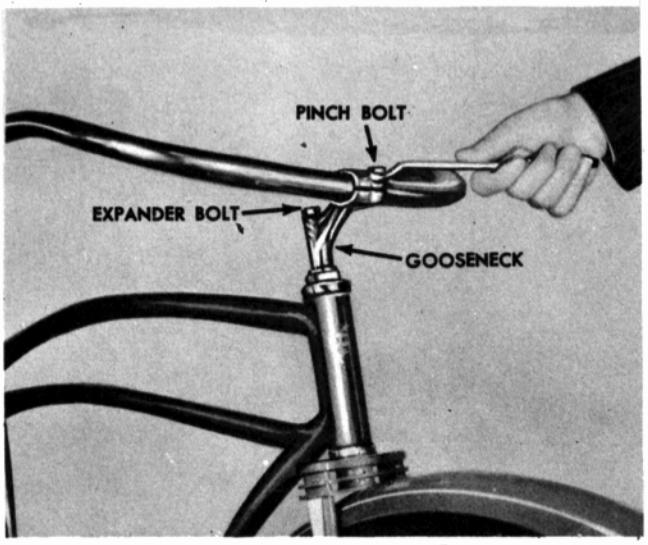


Fig. 7—HANDLEBAR AND STEM

MAINTENANCE

COASTER BRAKE—The coaster brake is correctly adjusted at the factory and locked with special lock nuts. No further adjustment should be needed until bicycle has had considerable use. If play develops in brake assembly, readjust coaster as follows: loosen outside nuts on each end of rear axle. Loosen lock nut on sprocket side of coaster brake. Adjust small cone (next to lock nut) by turning slightly to the right to take up any play in bearing. Wheel must turn freely when properly adjusted. Carefully re-tighten lock nut against cone; tighten outside axle nuts as instructed above.

SPOKES—Loose spokes cause a wheel to wobble. Keep spokes tight and wheels true. Use a spoke nipple wrench (Wards Spoke Wrench No. 60-3897) to make adjustments. Facing hub, turn spoke nipple to right to tighten; to left to loosen. Tighten spokes uniformly to avoid warping rim.

SIDE KICK-UP STAND—Apply a small amount of vaseline or cup grease to parts where there is friction.

BEARINGS—For long life and easy operation, keep bearings in front and rear wheel (coaster brake) hubs well oiled. Use a few drops of light oil but do not flood them, (we recommend SAE 10-20 Viscosity Bearing Lubricating Oil). Apply oil to coaster brake only at each end of the hub and on the adjusting cone. Do not oil through oil hole in coaster hub unless the brake grabs. Then it is usually best to take brake apart, clean it and repack with medium automobile grease or vaseline. The bearings in the head and hanger of the bicycle should be cleaned and replaced with vaseline or cup grease every six months.

HOW TO ORDER REPAIR PARTS FROM ANY WARDS BRANCH

1. Refer to Wards latest General Catalog for parts such as spokes, wheels, pedals, handle bars, etc. For other parts examine the group pictures in this book and select the needed parts. When ordering be sure to specify the part number.

2. If the needed part is not listed in Wards latest General Catalog or shown in this book, send us your order with the following information:

A. Description of part wanted.

B. If you want an enameled part such as frame, fork, or fender, state whether for ladies' or men's bicycle. Give tire size (26", 24", etc.). Be sure to state color wanted.

C. Give identification number located under crank hanger housing or on the seat post mast directly below the top bar.

Repair Parts may be ordered from your nearest Wards Retail Store, Mail Order House or Catalog Office.

You pay charges from shipping point. Shipping charges are based on size and total weight of order. Use any one of the following shipping methods:

PARCEL POST . . . limit 70 lbs. with certain restrictions at First Class Postoffices. Add postage to remittance.

EXPRESS . . . **fastest** for unmailable or bulky items.

FREIGHT . . . **cheapest** for unmailable or bulky items.

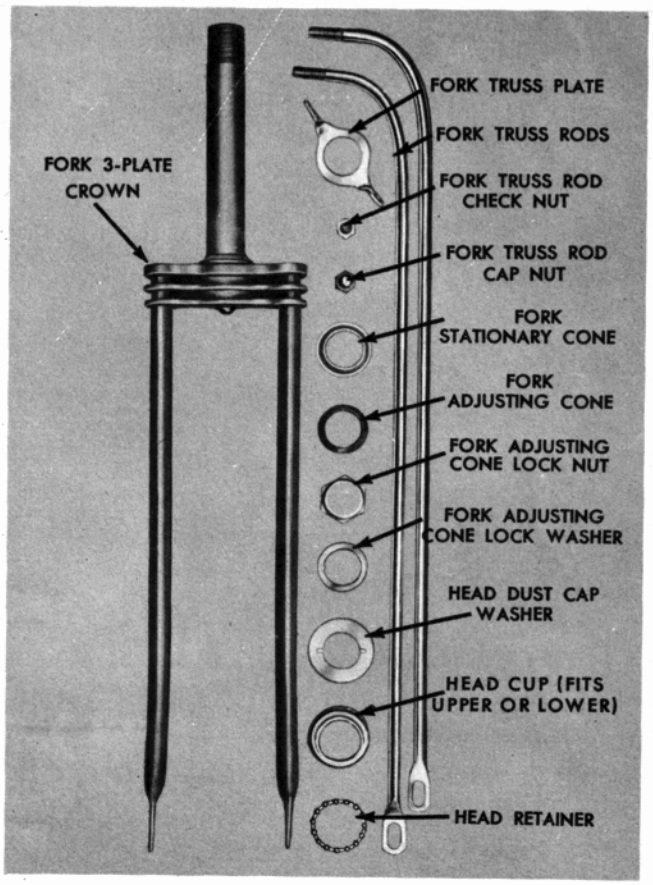
When goods arrive by express or freight, pay station agent. If there is no agent, add estimated shipping charges to remittance. See Wards latest General Catalog for estimated shipping charges. **In all cases, any excess will be refunded.**

REPAIR PARTS

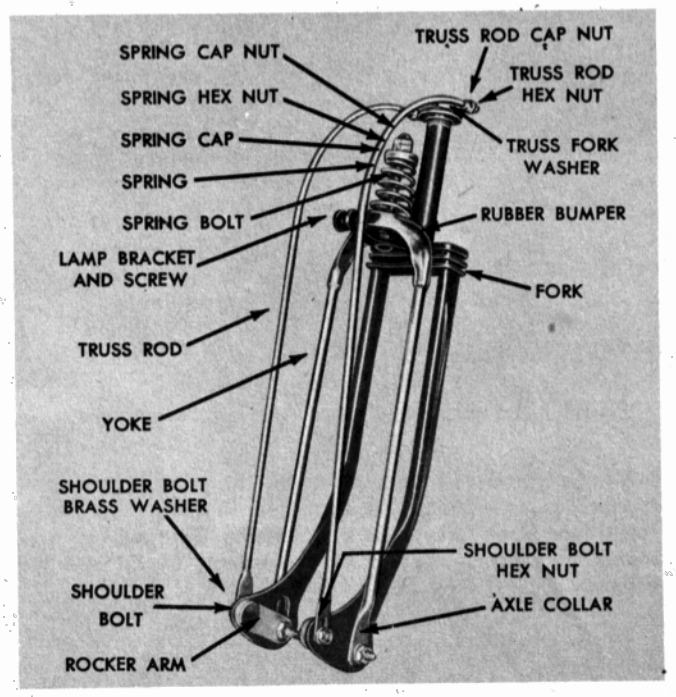
ORDER BY PART NAME AND PART NUMBER

FRONT FORK GROUP

PART NO.	PART NAME	QUAN.	WEIGHT LBS.	WEIGHT OZ.	PRICE
3430	Fork 3-Plate Crown, Brown anti-rust finish	1	3		$1.89
3498	Fork Truss Plate	1		8	.15
3501	Fork Truss Rod Check Nut (2 required)	2		8	.12
3502	Fork Truss Rod Cap Nut (2 required)	2		8	.20
3504	Fork Truss Rods, Plated, Left and Right	pair	1		1.25
3503	Fork Stationary Cone	1		4	.12
3500	Fork Adjusting Cone	1		8	.24
3506	Fork Adjusting Cone Lock Nut	1		5	.24
3505	Fork Adjusting Cone Lock Washer	1		2	.07
3485	Head Dust Cap Washer	1		5	.12
3507	Head Cups fit Upper or Lower	2		10	.40
3508	Head Retainers have 15 3/16-in. balls, fit cup diameter 1-35/64-in.	2		8	.48

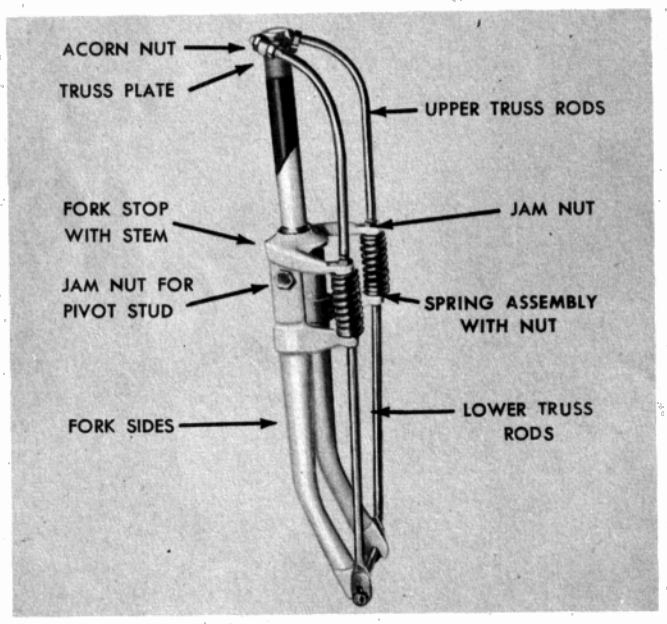


HAWTHORNE SPRING FORK GROUP



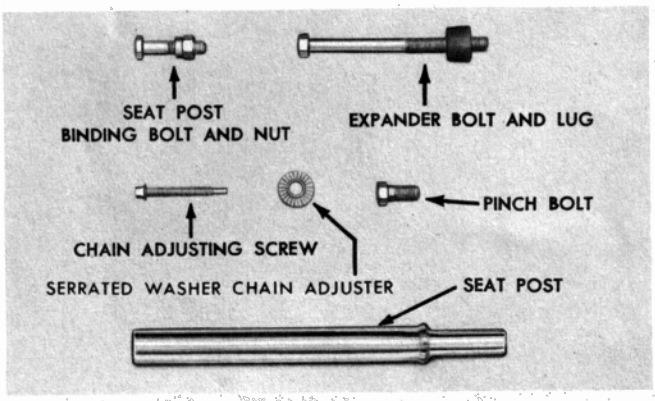
PART NO.	PART NAME	QUAN.	WEIGHT LBS.	WEIGHT OZ.	PRICE
3456	Truss Rod Hex Nuts	2		4	$ .12
3457	Truss Rod Cap Nuts	2		4	.20
3458	Truss Fork Washer	1		2	.15
3459	Rubber Bumper	1		2	.12
3460	Fork, anti-rust finish	1	3		2.95
3461	Axle Collars	2		4	.15
3462	Shoulder Bolt Hex Nuts	2		4	.12
3463	Shoulder Bolt Brass Washers	2		4	.16
3464	Shoulder Bolts	2		12	.60
3465	Rocker Arms	2		4	.20
3466	Yoke	1	1	8	2.60
3467	Truss Rods	pair	2		1.25
3468	Lamp Bracket and Screw	1		8	.20
3469	Spring Bolt	1		4	.20
3470	Spring	1		8	.50
3471	Spring Cap	1		2	.15
3472	Spring Hex Nut	1		2	.12
3473	Spring Cap Nut	1		4	.28

SHOCKMASTER SPRING FORK GROUP



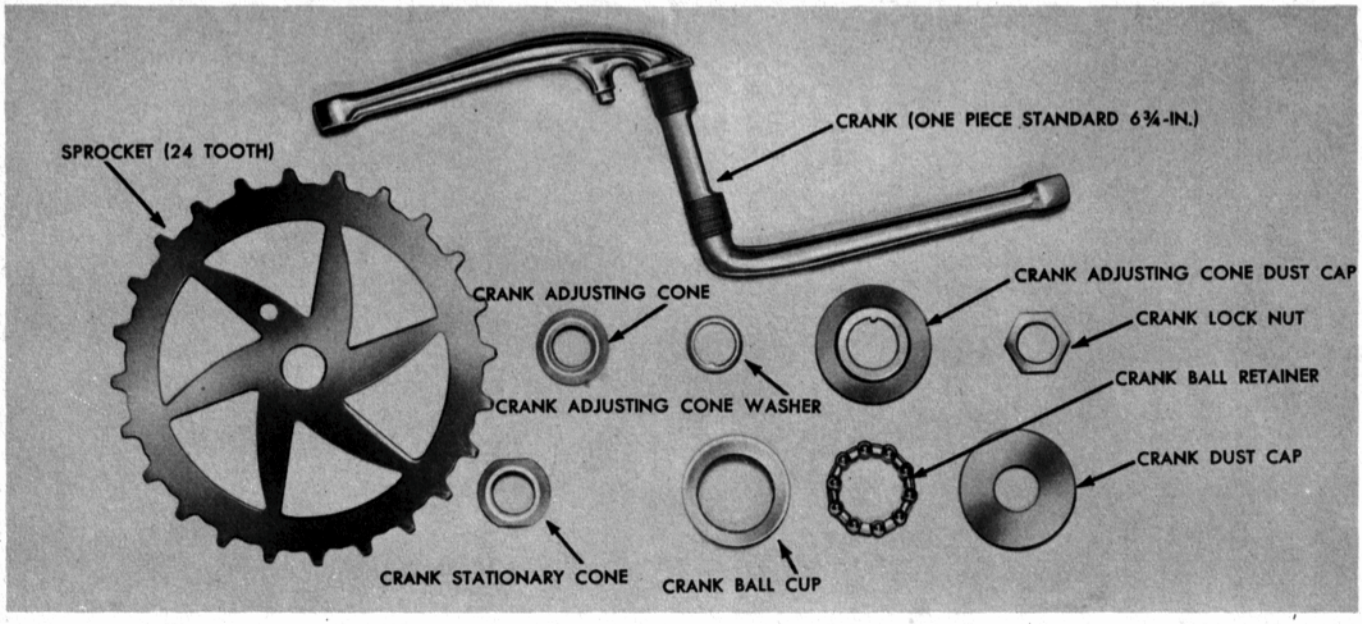
PART NO.	PART NAME	QUAN.	WEIGHT LBS.	WEIGHT OZ.	PRICE
3474	Acorn Nuts	2		4	$ .20
3475	Truss Plate	1		6	.25
*	Fork Top with stem, no light bracket	NO LONGER AVAILABLE			
3477	Pivot Studs	2		12	.40
3478	Upper Truss Rods, men's	pair	1		.80
3479	Jam Nut	2		8	.10
*	Fork Sides, right, anti-rust finish	NO LONGER AVAILABLE			
*	Fork Sides, left, anti-rust finish	NO LONGER AVAILABLE			
3482	Lower Truss Rods	2	1		.98
3483	Upper Truss Rods, women's	2	1		.80
3487	Spring Assembly	2	1		1.20
*	Fork Top with Stem, with light bracket	NO LONGER AVAILABLE			

MISCELLANEOUS GROUP



PART NO.	PART NAME	QUAN.	WEIGHT LBS.	WEIGHT OZ.	PRICE
3520N	Chain Adjuster Serrated Washer	2		4	$ .16
3523	Chain Adjusting Screws	2		2	.12
3524	Seat Post, pillar type (12-in. long)	1	1		.45
3525	Seat Post Binding Bolt and Nut	1		4	.12
3526	Expander Bolt (4½-in.) and Lug for Handlebar Stem	1		8	.20
3527	Pinch Bolt for Handlebar Stem (1-in. long)	1		4	.10

* Order Complete Fork Part No. 3430



ORDER BY PART NAME AND PART NUMBER

HAWTHORNE CRANK HANGER GROUP

PART NO.	PART NAME	QUAN.	WEIGHT LBS.	WEIGHT OZ.	PRICE
3877	Crank, one-piece Standard 6¾-in.	1	2	2	$1.89
3878	Crank, one-piece Juvenile, 5¼-in.	1	2	2	1.89
3880	Sprocket, 24 tooth	1	1		1.50
3881	Sprocket, Juvenile, 22 tooth	1	1		1.50
3509	Crank Stationary Cone	1		8	.22
3511	Crank Ball Cups	2		12	.40
3514	Crank Lock Nut	1		4	.12

PART NO.	PART NAME	QUAN.	WEIGHT LBS.	WEIGHT OZ.	PRICE
3512	Crank Ball Retainers, 10 5/16-in. balls, fit cup 1-53/64-in.	2		8	.50
3517	Crank Dust Cap, fits right side sprocket	1		4	.12
3513	Crank Adjusting Cone	1		8	.22
3515	Crank Adjusting Cone Washer	1		2	.07
3510	Crank Adjusting Cone Dust Cap, left side	1		4	.12

IMPORTANT—All prices in this literature are subject to change without notice and are subject to an additional charge to cover any applicable sales tax, use, occupation, or other tax affecting our purchase or sale of merchandise.